=> file reg; d que l17

FILE 'REGISTRY' ENTERED AT 11:17:25 ON 19 OCT 2000
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

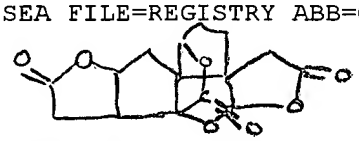
STRUCTURE FILE UPDATES: 18 OCT 2000 HIGHEST RN 297131-67-0
DICTIONARY FILE UPDATES: 18 OCT 2000 HIGHEST RN 297131-67-0

TSCA INFORMATION NOW CURRENT THROUGH July 8, 2000

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search limits have been increased. See HELP SLIMIT for details.

L17 348 SEA FILE=REGISTRY ABB=ON PLU=ON 5526.1.1/RID — all compounds containing this ring structure



=> fil caplus

FILE 'CAPLUS' ENTERED AT 11:17:46 ON 19 OCT 2000
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1967 - 19 Oct 2000 VOL 133 ISS 17
FILE LAST UPDATED: 18 Oct 2000 (20001018/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGlstRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Now you can extend your author, patent assignee, patent information, and title searches back to 1907. The records from 1907-1966 now have this searchable data in CAOLD. You now have electronic access to all of CA: 1907 to 1966 in CAOLD and 1967 to the present in CAPLUS on STN.

=> d que l34

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L17          348 SEA FILE=REGISTRY ABB=ON  PLU=ON  5526.1.1/RID
L18          467 SEA FILE=CAPLUS ABB=ON  PLU=ON  L17
L19       430393 SEA FILE=CAPLUS ABB=ON  PLU=ON  ?ALCOHOL?
L21        45678 SEA FILE=CAPLUS ABB=ON  PLU=ON  ?TOBACCO?
L22         3850 SEA FILE=CAPLUS ABB=ON  PLU=ON  ?ADDICT?
L23        62717 SEA FILE=CAPLUS ABB=ON  PLU=ON  ?CIGAR? OR ?NICOTIN?
L24        12855 SEA FILE=CAPLUS ABB=ON  PLU=ON  ?COCAIN? OR ?HEROIN?
L25        26754 SEA FILE=CAPLUS ABB=ON  PLU=ON  ?AMPHETAMIN? OR ?BARBITURAT?
L34           12 SEA FILE=CAPLUS ABB=ON  PLU=ON  L18 AND (L19 OR (L21 OR L22 OR
                 L23 OR L24 OR L25))
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Searched by Barb O'Bryen & Toby Port

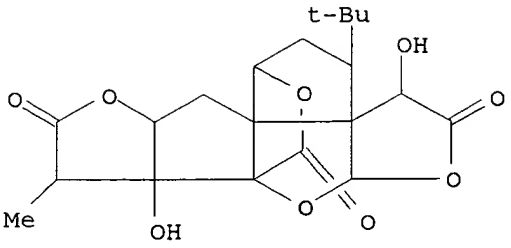
=> d ibib abs hitstr l34 1-12; file caold; d que l37

L34 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 2000:341808 CAPLUS
DOCUMENT NUMBER: 133:150796
TITLE: 1H-NMR analysis of intra- and intermolecular H-bonds of **alcohols** in DMSO: chemical shift of hydroxy groups and aspects of conformational analysis of selected monosaccharides, inositols, and ginkgolides
AUTHOR(S): Bernet, Bruno; Vasella, Andrea
CORPORATE SOURCE: Laboratorium fur Organische Chemic, ETH-Zentrum, Zurich, CH-8092, Switz.
SOURCE: Helv. Chim. Acta (2000), 83(5), 995-1021
CODEN: HCACAV; ISSN: 0018-019X
PUBLISHER: Verlag Helvetica Chimica Acta
DOCUMENT TYPE: Journal
LANGUAGE: English

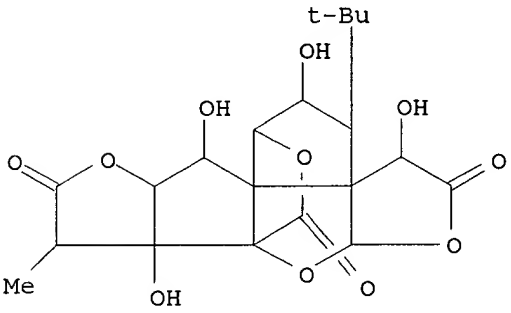
AB The interpretation of 1H-NMR chem. shifts, coupling consts., and coeffs. of temp. dependence (.delta.(OH), J(H,OH), and .DELTA..delta.(OH)/.DELTA.T values) evidences that, in (D6)DMSO soln., the signal of an OH group involved as donor in an intramol. H-bond to a hydroxy or alkoxy group is shifted upfield, whereas the signal of an OH group acting as acceptor of an intramol. H-bond and as donor in an intermol. H-bond to (D6)DMSO is shifted downfield. The relative strength of the intramol. H-bond depends on co-operativity and on the acidity of OH groups. The acidity of OH groups is enhanced when they are in an antiparallel orientation to a C-O bond. A comparison of the 1H-NMR spectra of **alcs**. in CDCl3 and (D6)DMSO allows discrimination between weak and strong intramol. H-bonds. Consideration of IR spectra (CHCl3 or CH2Cl2) shows that the rule according to which the downfield shift of .delta.(OH) for H-bonded **alcs**. in CDCl3 parallels the strength of the H-bond is valid only for **alcs**. forming strong intramol. H-bonds. H-Bonding of hexopyranoses, hexulopyranoses, alkyl hexopyranosides, alkyl 4,6-O-benzylidenehexopyranosides, levoglucosans, and inositols in (D6)DMSO was investigated.

IT **15291-75-5**, Ginkgolide A **15291-76-6**, Ginkgolide C
15291-77-7, Ginkgolide B **123600-74-8 130523-06-7**
145497-37-6 153355-66-9 201736-39-2
287109-66-4 287109-68-6
RL: PRP (Properties)
(1H-NMR anal. of intra- and intermol. H-bonds of **alcs**. in DMSO: chem. shift of hydroxy groups and aspects of conformational anal. of selected monosaccharides, inositols, and ginkgolides)

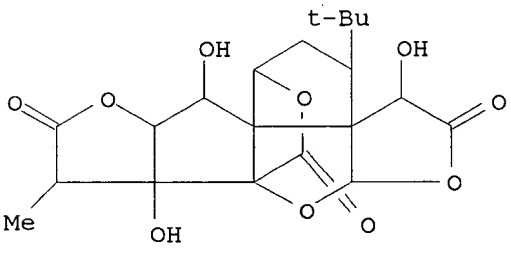
RN 15291-75-5 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



RN 15291-76-6 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b,11-tetrahydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)

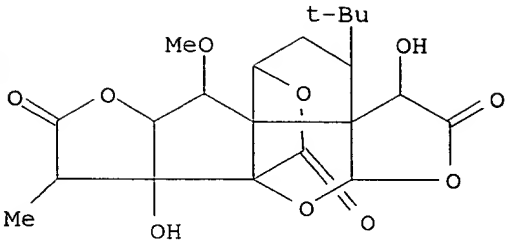


RN 15291-77-7 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)

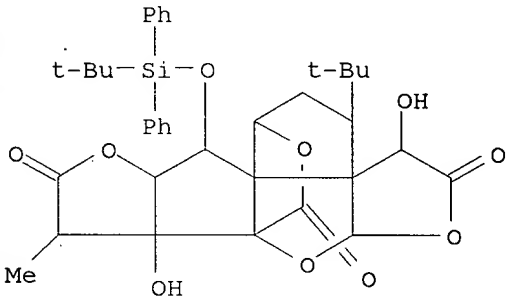


RN 123600-74-8 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-11-methoxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)

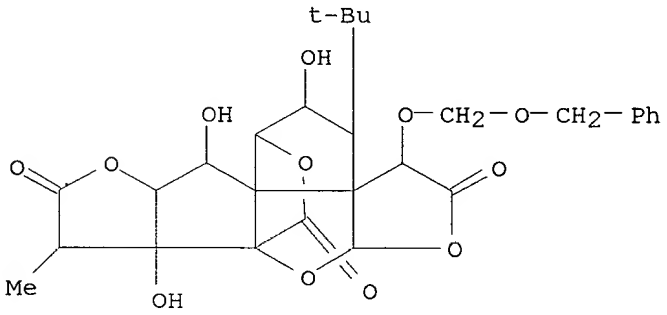
Searched by Barb O'Bryen & Toby Port



RN 130523-06-7 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)-11-[[(1,1-dimethylethyl)diphenylsilyl]oxy]hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)-(9CI) (CA INDEX NAME)

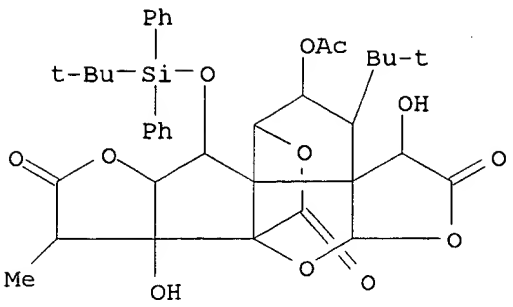


RN 145497-37-6 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, -3-(1,1-dimethylethyl)hexahydro-2,7b,11-trihydroxy-8-methyl-4-[(phenylmethoxy)methoxy], (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)-(9CI) (CA INDEX NAME)



RN 153355-66-9 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 2-(acetyloxy)-3-(1,1-dimethylethyl)-11-[[(1,1-dimethylethyl)diphenylsilyl]oxy]hexahydro-4,7b-dihydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)

Searched by Barb O'Bryen & Toby Port



RN 201736-39-2 CAPLUS
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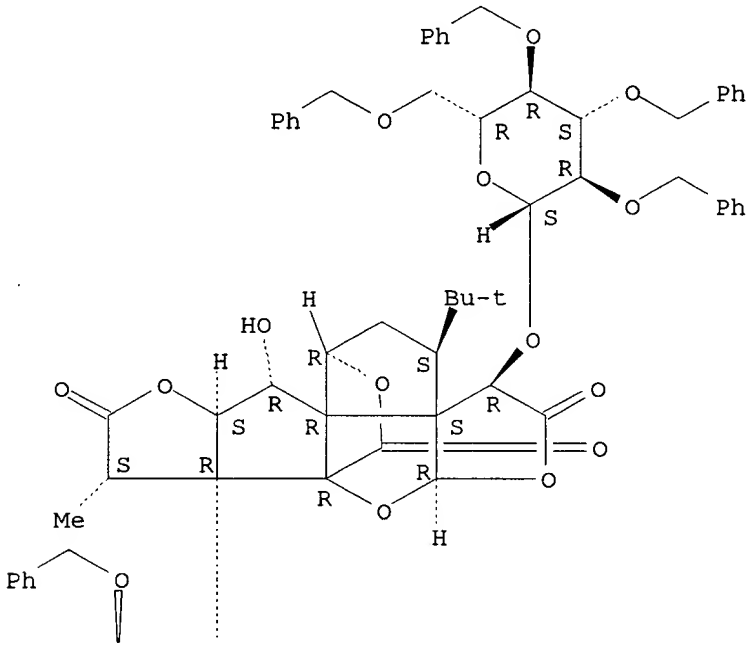
Absolute stereochemistry.

PAGE 1-A



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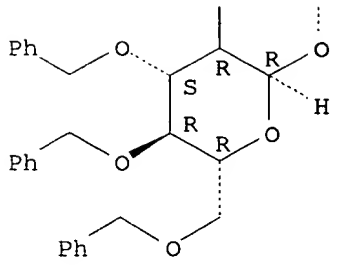
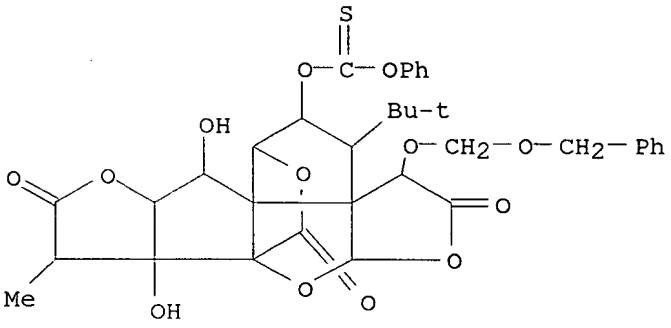


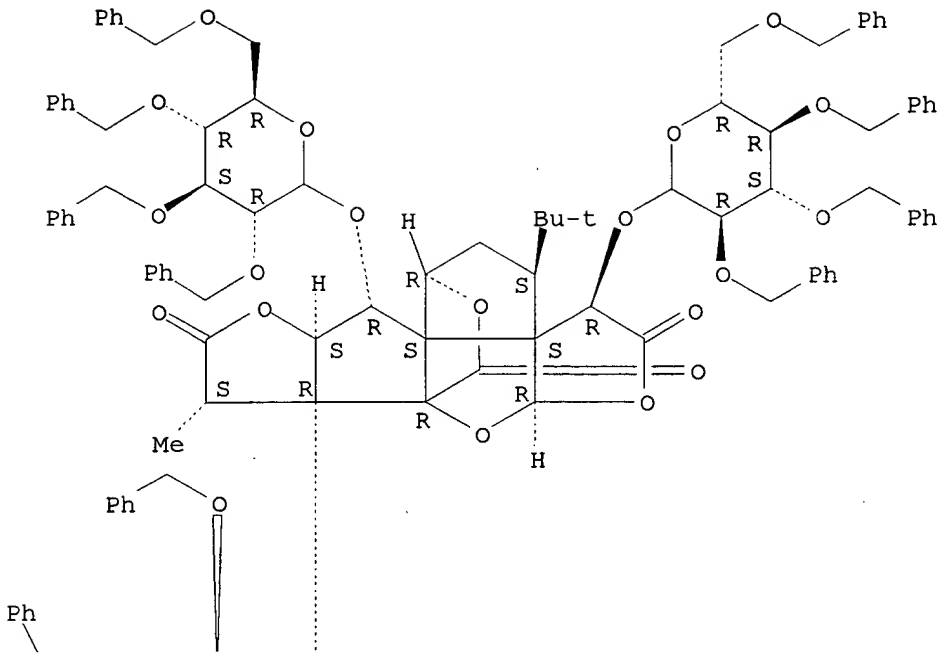
RN 287109-66-4 CAPLUS
CN Carbonothioic acid, O-[(1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)-3-(1,1-dimethylethyl)octahydro-7b,11-dihydroxy-8-methyl-5,9,12-trioxo-4-[(phenylmethoxy)methoxy]-9H-1,7a-(epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-2-yl] O-phenyl ester (9CI) (CA INDEX NAME)



RN 287109-68-6 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-8-methyl-4,11-bis[[2,3,4,6-tetrakis-O-(phenylmethyl)-D-glucopyranosyl]oxy]-7b-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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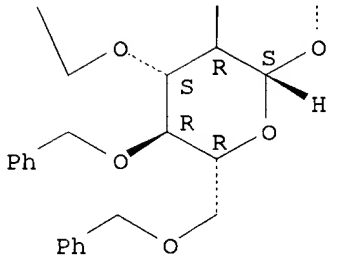


REFERENCE COUNT: 75
REFERENCE(S):
(1) Aaron, H; Top Stereochem 1979, V11, P1 CAPLUS
(2) Abdel-Malik, M; Carbohydr Res 1987, V159, P11 CAPLUS
(3) Adams, B; Magn Reson Chem 1994, V32, P225 CAPLUS
(4) Alzeer, J; Helv Chim Acta 1995, V78, P242 CAPLUS
(5) Angyal, S; J Chem Soc Perkin Trans 2 1996, P1485 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

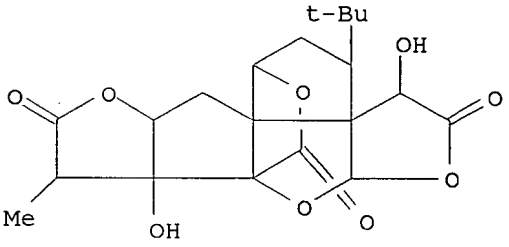
L34 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 2000:265919 CAPLUS
DOCUMENT NUMBER: 132:319735
TITLE: Chemical constituents of Ginkgo biloba
AUTHOR(S): Hasler, Andreas
CORPORATE SOURCE: Zeller Ltd., Herbal Remedies, Romanshorn, CH-8590, Switz.
SOURCE: Med. Aromat. Plants--Ind. Profiles (2000), 12(Ginkgo Biloba), 109-142
Searched by Barb O'Bryen & Toby Port

CODEN: MAPPFL; ISSN: 1027-4502
PUBLISHER: Harwood Academic Publishers
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English

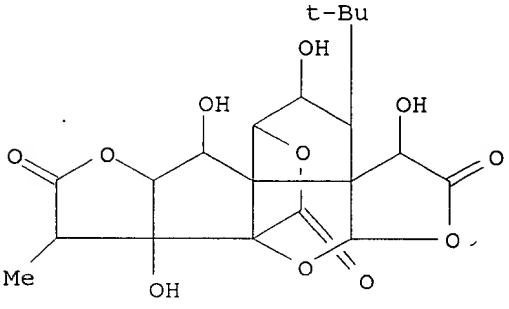
AB A review is given with many refs. on G. biloba constituents including terpenes, flavonoids, org. acids, polyacetate derived compds., carbohydrates, misc. org. compds., and inorg. compds.

IT **15291-75-5**, Ginkgolide A **15291-76-6**, Ginkgolide C **15291-77-7**, Ginkgolide B **15291-78-8**, Ginkgolide M **107438-79-9**, Ginkgolide J
RL: BOC (Biological occurrence); BIOL (Biological study); OCCU (Occurrence)
(chem. constituents of Ginkgo biloba)

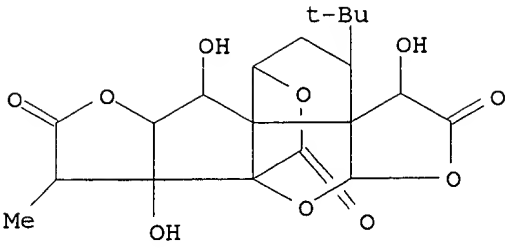
RN 15291-75-5 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



RN 15291-76-6 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b,11-tetrahydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



RN 15291-77-7 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



RN 15291-78-8 CAPLUS
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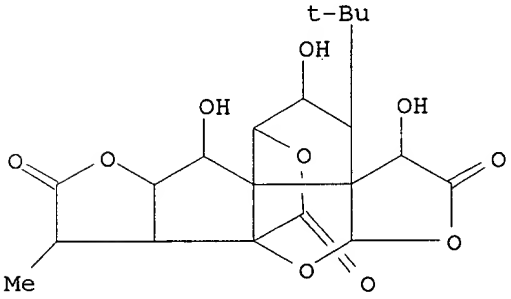

RN 107438-79-9 CAPLUS
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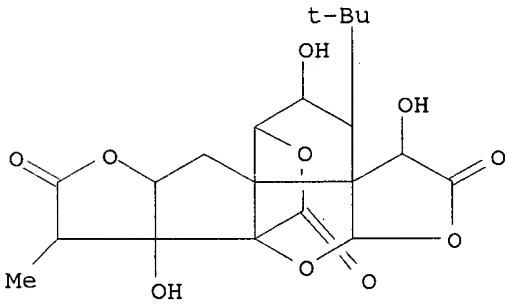


REFERENCE COUNT: 161
REFERENCE(S):

(1) Adawadkar, P; Fitoterapia 1981, V52, P129 CAPLUS
(8) Chang, S; Saengyak Hakhoechi 1993, V24, P54 CAPLUS
(9) Choukchou-Braham, N; Tetrahedron Lett 1994, V35, P3949 CAPLUS
(10) Chung, A; Korean J Food Sci Technol 1978, V10, P119 CAPLUS
(11) Chung, B; Daehan Hwahak Hwoejee 1982, V26, P95 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT
Searched by Barb O'Bryen & Toby Port

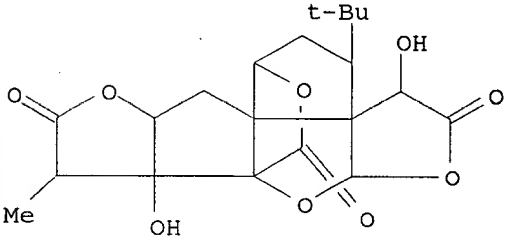
L34 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 2000:15604 CAPLUS
DOCUMENT NUMBER: 132:35038
TITLE: Water-soluble native vegetable dried extract, in particular Gingko biloba extract with high content of terpenoids and flavone glycosides.
INVENTOR(S): Oschmann, Rainer; Grethlein, Eckardt
PATENT ASSIGNEE(S): Willmar Schwabe G.m.b.H. and Co., Germany
SOURCE: Ger. Offen., 8 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19829516	A1	20000105	DE 1998-19829516	19980702
WO 2000001397	A1	20000113	WO 1999-DE1812	19990619
W: AU, CA, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9954069	A1	20000124	AU 1999-54069	19990619
PRIORITY APPLN. INFO.:			DE 1998-19829516	19980702
			WO 1999-DE1812	19990619

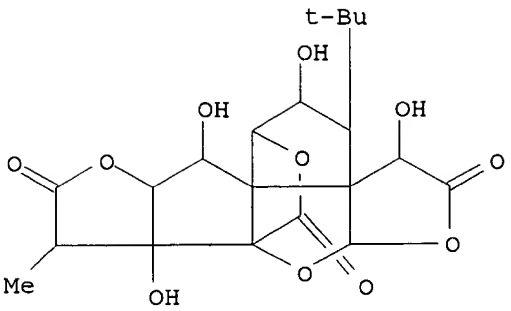
AB A water-sol. native vegetable dried ext. from plant parts, esp. from Ginkgo biloba leaves, contains flavone glycosides, terpene lactones and other components and is prepd. from an ultrafiltered **alc**.-water ext. preferably. The ext. is used in dietetic foods, drugs and cosmetics.

IT **15291-75-5P**, Ginkgolide A **15291-76-6P**, Ginkgolide C **15291-77-7P**, Ginkgolide B
RL: BUU (Biological use, unclassified); FFD (Food or feed use); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(water-sol. native vegetable dried ext., in particular Gingko biloba ext. with high content of terpenoids and flavone glycosides.)

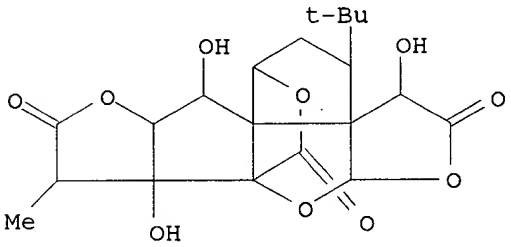
RN 15291-75-5 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



RN 15291-76-6 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b,11-tetrahydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



RN 15291-77-7 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 1
REFERENCE(S): (1) Anon; DE 19829516 A1 CAPLUS

L34 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 2000:12986 CAPLUS
DOCUMENT NUMBER: 132:33379
TITLE: Health-care **cigarette** from ginkgo leaf
INVENTOR(S): Zou, Qiang; Zou, Yong
PATENT ASSIGNEE(S): Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 4 pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1181217	A	19980513	CN 1997-106146	19971017
CN 1045379	B	19991006		
WO 9920131	A1	19990429	WO 1998-CN209	19980930
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9893365	A1	19990510	AU 1998-93365	19980930

PRIORITY APPLN. INFO.: CN 1997-106146 19971017

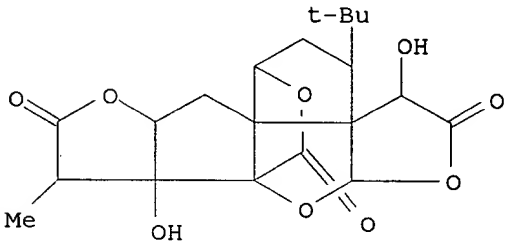
WO 1998-CN209 19980930

AB The raw material is composed of ginkgo leaf 50-100%, and **tobacco** 0-50%.

IT **15291-75-5 15291-76-6 15291-77-7**
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(low-health-rise **cigarettes** manufd. from ginkgo leaf)

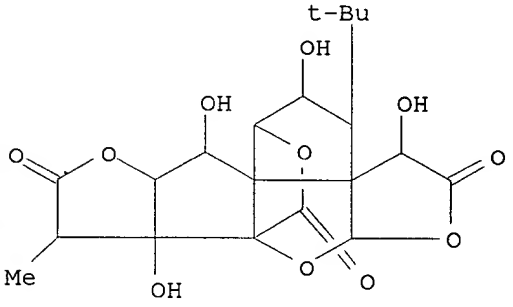
RN 15291-75-5 CAPLUS

CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



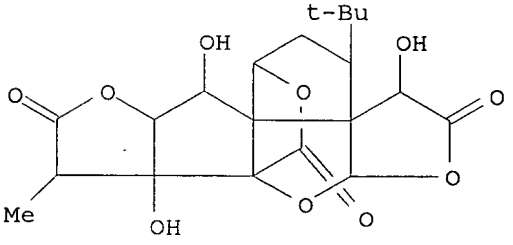
RN 15291-76-6 CAPLUS

CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b,11-tetrahydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



RN 15291-77-7 CAPLUS

CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



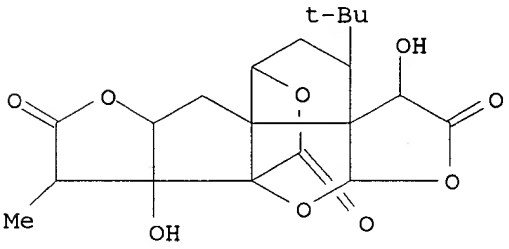
Searched by Barb O'Bryen & Toby Port

L34 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 2000:12273 CAPLUS
DOCUMENT NUMBER: 132:227524
TITLE: Liquid chromatography/electrospray mass spectrometry of bioactive terpenoids in Ginkgo biloba L.
AUTHOR(S): Mauri, Pierluigi; Migliazza, Barbara; Pietta, Piergiorgio
CORPORATE SOURCE: ITBA/CNR, Milan, 20090, Italy
SOURCE: J. Mass Spectrom. (1999), 34(12), 1361-1367
CODEN: JMSPFJ; ISSN: 1076-5174
PUBLISHER: John Wiley & Sons Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

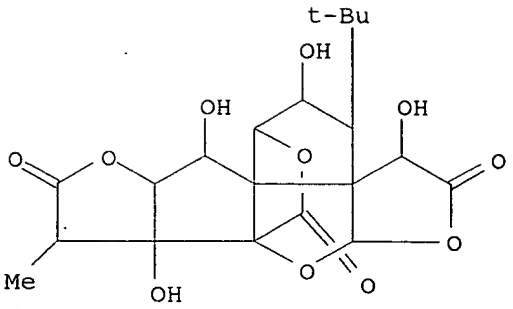
AB Standardized exts. of G. biloba leaves are mainly used in the treatment of peripheral and cerebral circulation disorders, and also as a remedy against asthma, coughs, bladder inflammation, blenorrhagia and **alc**. abuse. The leaf exts. contain biflavones, flavonol glycosides and terpene lactones. This paper reports a method based on liq. chromatog. coupled with electrospray mass spectrometry for the anal. of terpenoids in G. biloba exts. This method allows the rapid isocratic sepn. of underivatized ginkgolides (A, B, C and J) and bilobalide at very low levels (10 pg on the column) and their quant. detection by external standardization with relative std. deviations of 3 and 5% for intra- and inter-day analyses, resp.

IT **15291-75-5**, Ginkgolide A **15291-76-6**, Ginkgolide C
15291-77-7, Ginkgolide B **107438-79-9**, Ginkgolide J
RL: ANT (Analyte); BOC (Biological occurrence); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence)
(liq. chromatog./electrospray mass spectrometry of bioactive terpenoids in Ginkgo biloba exts..)

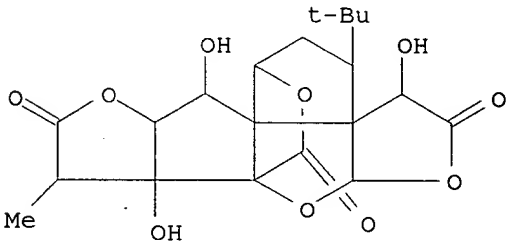
RN 15291-75-5 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



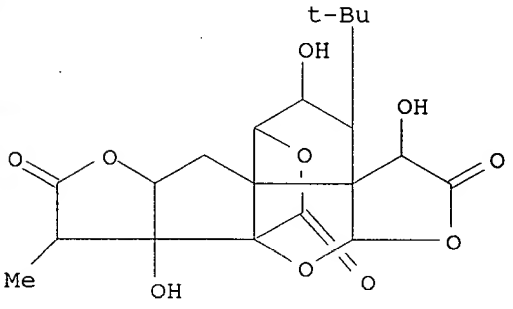
RN 15291-76-6 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b,11-tetrahydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



RN 15291-77-7 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



RN 107438-79-9 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b-trihydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 20
REFERENCE(S):
(1) Biber, A; Planta Med 1999, V65, P192 CAPLUS
(2) Bruno, C; Planta Med 1993, V59, P302 CAPLUS
(3) Camponovo, F; Phytochem Anal 1995, V6, P141 CAPLUS
(4) Chauret, N; J Chromatogr 1991, V588, P281 CAPLUS
(7) Komoda, Y; Iyo Kizai Kenkyusho Hokuko 1988, V22, P83 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2000 ACS
Searched by Barb O'Bryen & Toby Port

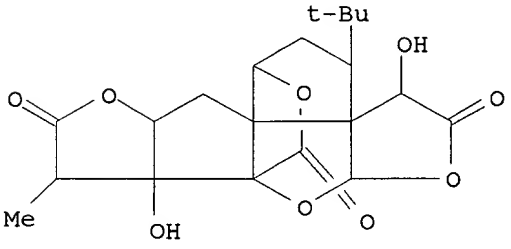
ACCESSION NUMBER: 1999:794218 CAPLUS
DOCUMENT NUMBER: 132:26809
TITLE: Ginkgo biloba extract enhanced bioavailability composition and food products
INVENTOR(S): Daoud, Abdulwahid H.
PATENT ASSIGNEE(S): USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6001393	A	19991214	US 1997-892423	19970714

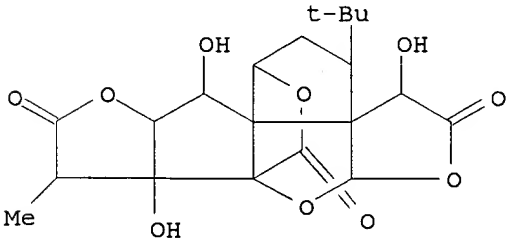
AB A compn. and method which increases the bioavailability of ingested Ginkgo Biloba ext. (GBE). The compn. comprises a mixt. of polyol(s), and GBE. The compn. is ingested, either in the concd. paste form, dild. with edible liq. or food as an additive. Increased serum levels of ginkgolide A, B and bilobalide are demonstrated for individuals ingesting the compn. over ingesting GBE without the polyol(s).

IT **15291-75-5**, Ginkgolide a **15291-77-7**, Ginkgolide b
RL: BOC (Biological occurrence); BPR (Biological process); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PROC (Process); USES (Uses)
(Ginkgo biloba ext. enhanced bioavailability compn. and food products)

RN 15291-75-5 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



RN 15291-77-7 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



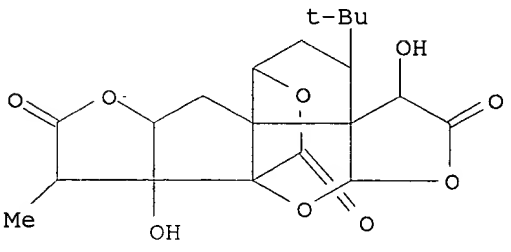
Searched by Barb O'Bryen & Toby Port

REFERENCE COUNT: 12
REFERENCE(S): (1) Allard; US 5525359 1996
(2) Ayroles; US 4981688 1991
(4) Hastings; US 5626849 1997 CAPLUS
(6) Liu; US 4708949 1987 CAPLUS
(7) Majeed; US 5536506 1996 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1999:497039 CAPLUS
DOCUMENT NUMBER: 131:120852
TITLE: Ginkgo biloba extracts for the preparation of pharmaceuticals for treatment of drug dependence/**addiction**
INVENTOR(S): Drieu, Katy
PATENT ASSIGNEE(S): Societe de Conseils de Recherches et d'Applications Scientifiques Scras S.A., Fr.
SOURCE: Fr. Demande, 27 pp.
CODEN: FRXXBL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

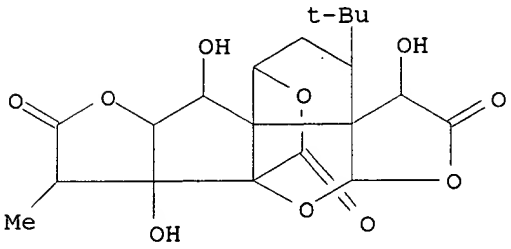
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2771639	A1	19990604	FR 1997-15230	19971203
FR 2771639	B1	20000505		

OTHER SOURCE(S): MARPAT 131:120852
AB The use of G. biloba exts. for the treatment of drug dependence/**addiction**, e.g., **alcoholism, tobacco** dependence, is described. The effect of the exts. on the dependence on **alc**. was studied in rats. Rats receiving 50 or 100 mg/kg ext./day showed a decreased hyperactivity effect.
IT **15291-75-5**, Ginkgolide A **15291-77-7**, Ginkgolide B
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(Ginkgo biloba exts. for pharmaceuticals in treatment of drug dependence/**addiction**)
RN 15291-75-5 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



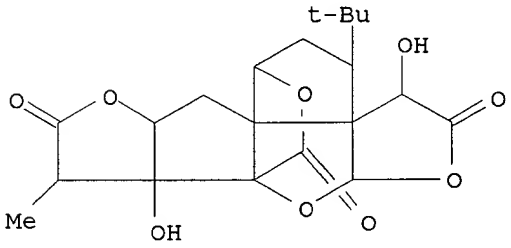
RN 15291-77-7 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione,

3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)

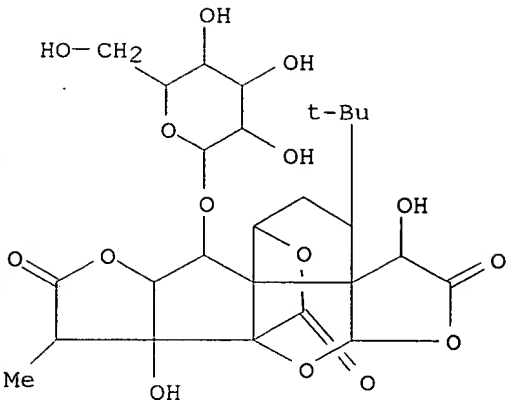


IT **15291-75-5DP**, Ginkgolide a, derivs. **201736-31-4P**
201736-32-5P 201736-33-6P 201736-34-7P
201736-45-0P 201736-47-2P 201736-49-4P
201736-56-3P 201736-63-2P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(Ginkgo biloba exts. for pharmaceuticals in treatment of drug dependence/**addiction**)

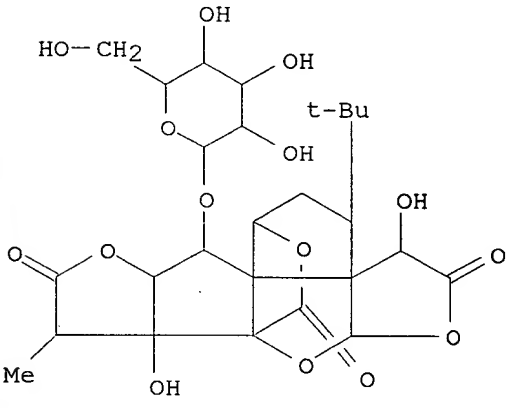
RN 15291-75-5 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



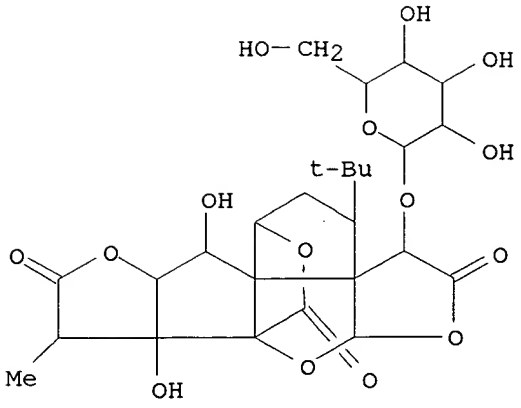
RN 201736-31-4 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)-11-(.beta.-D-glucopyranosyloxy)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)



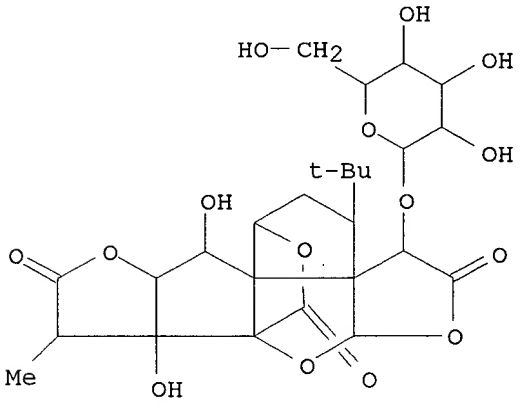
RN 201736-32-5 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)-11-(.alpha.-D-glucopyranosyloxy)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)



RN 201736-33-6 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)-4-(.beta.-D-glucopyranosyloxy)hexahydro-7b,11-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)- (9CI) (CA INDEX NAME)



RN 201736-34-7 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)-4-(.alpha.-D-glucopyranosyloxy)hexahydro-7b,11-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)- (9CI) (CA INDEX NAME)



RN 201736-45-0 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)-4,7b-bis(.beta.-D-glucopyranosyloxy)hexahydro-11-hydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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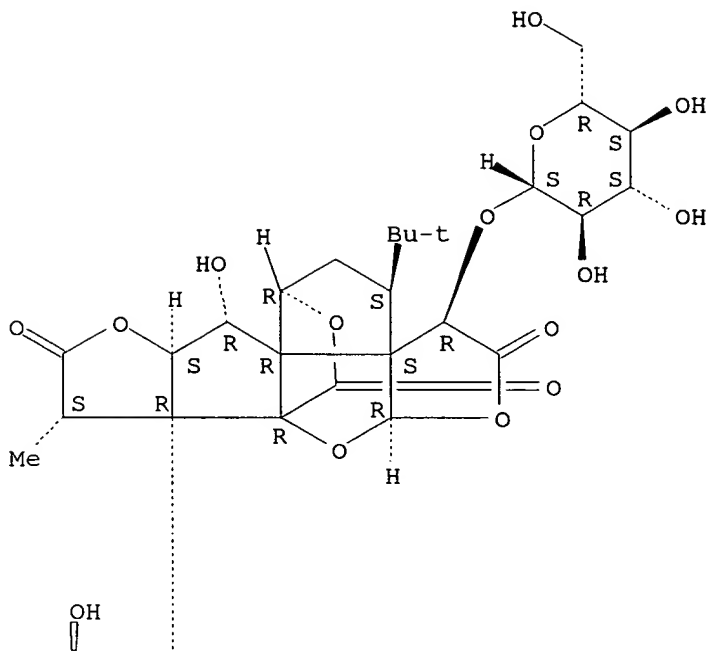

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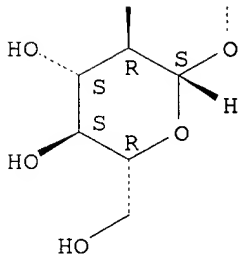

RN 201736-47-2 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)-4-(.alpha.-D-glucopyranosyloxy)-7b-(.beta.-D-glucopyranosyloxy)hexahydro-11-hydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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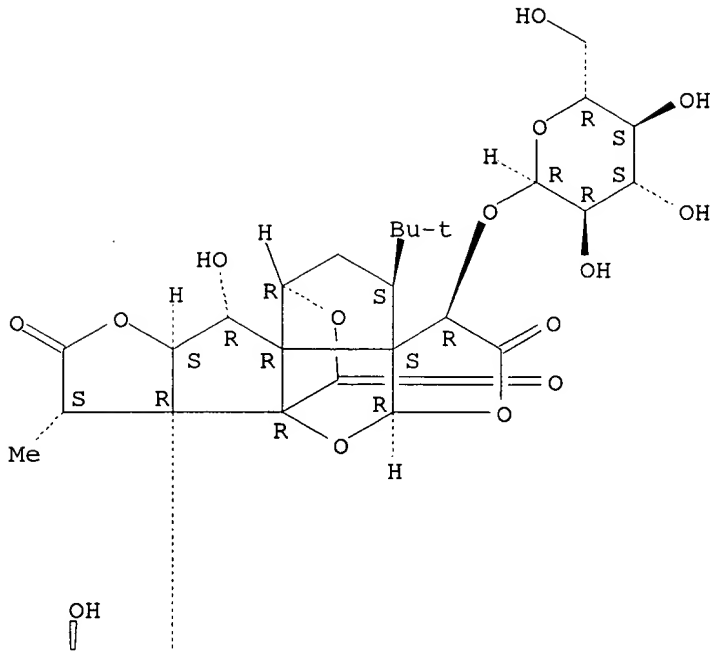

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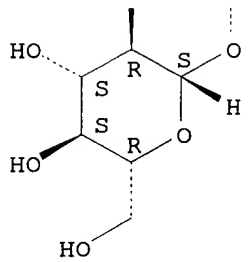
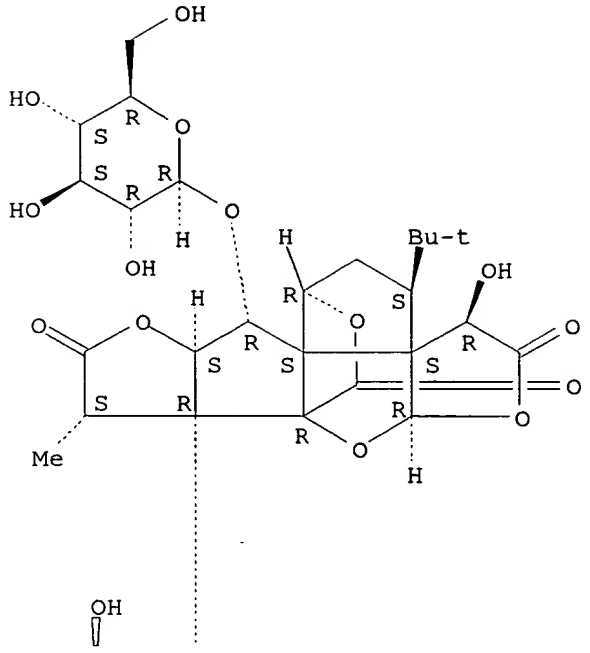


RN 201736-49-4 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)-7b,11-bis(.beta.-D-glucopyranosyloxy)hexahydro-4-hydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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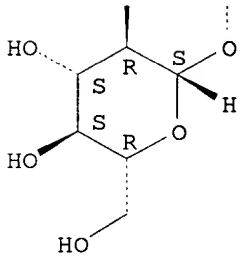

RN 201736-56-3 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)-4,7b,11-tris(.beta.-D-glucopyranosyloxy)hexahydro-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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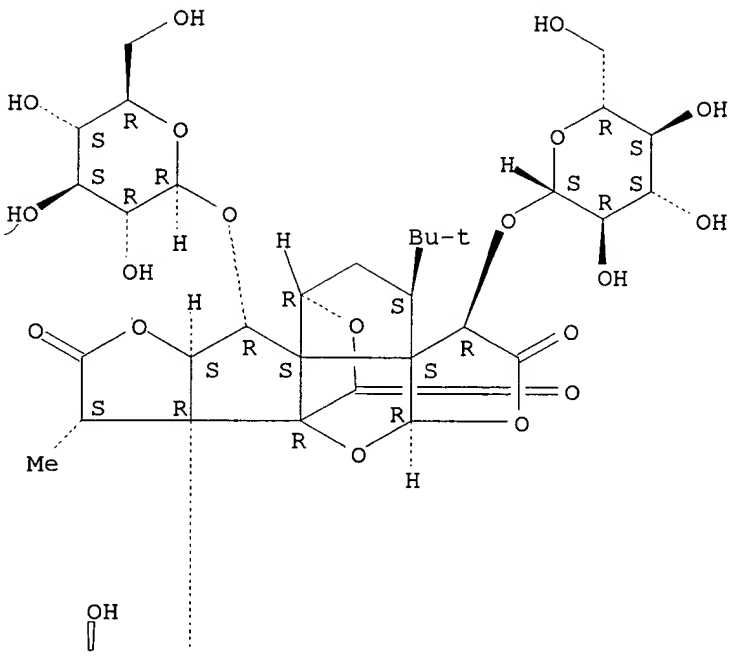

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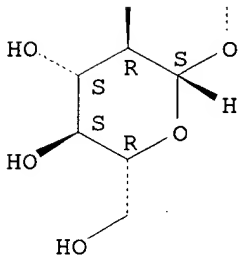
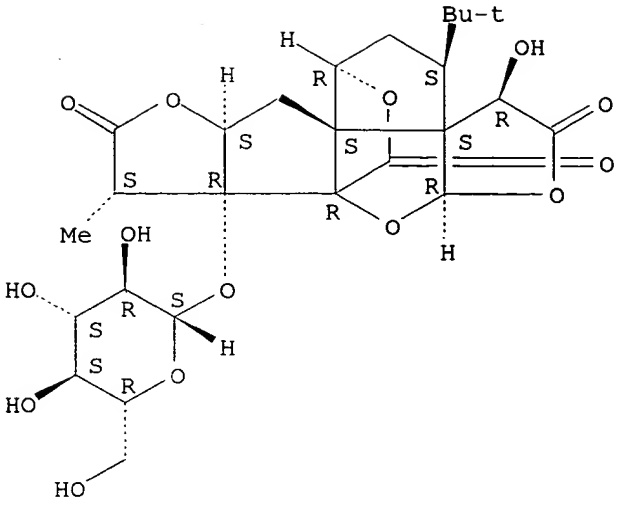


RN 201736-63-2 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)-7b-(.beta.-D-glucopyranosyloxy)hexahydro-4-hydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

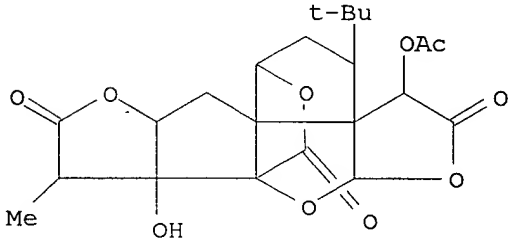
Searched by Barb O'Bryen & Toby Port



IT **38741-05-8P 201736-27-8P 201736-28-9P**
201736-29-0P 201736-30-3P 201736-35-8P
201736-37-0P 201736-41-6P 201736-43-8P
201736-51-8P 201736-52-9P 201736-54-1P
201736-59-6P 201736-61-0P 232612-16-7P
232612-20-3P 232612-21-4P 232612-22-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(Ginkgo biloba exts. for pharmaceuticals in treatment of drug dependence/**addiction**)

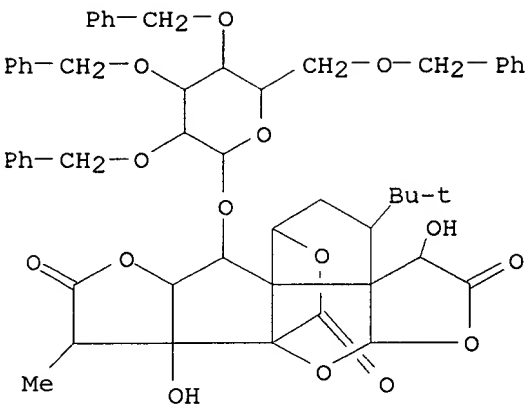
RN 38741-05-8 CAPLUS

CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 4-(acetyloxy)-3-(1,1-dimethylethyl)hexahydro-7b-hydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)

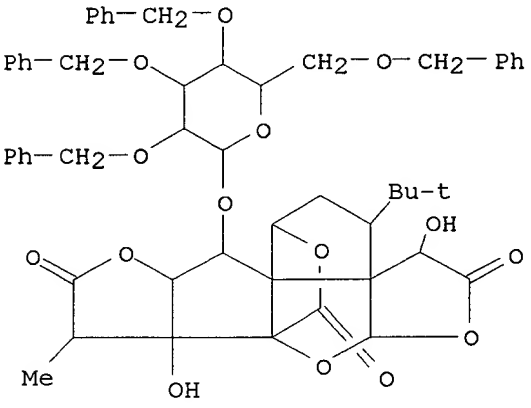


RN 201736-27-8 CAPLUS

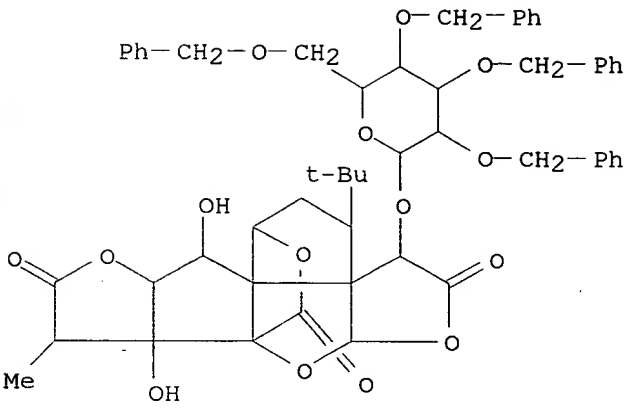
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-11-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)



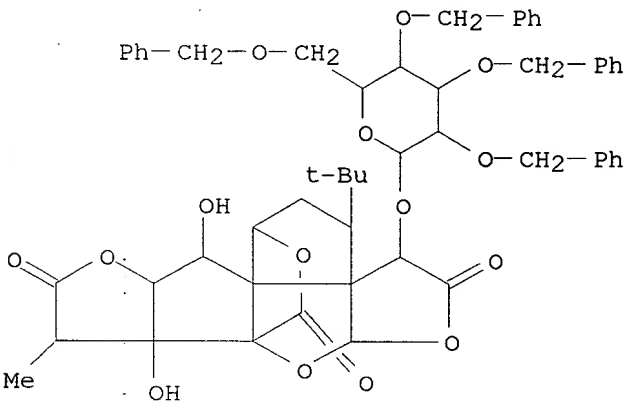
RN 201736-28-9 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-11-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.alpha.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)



RN 201736-29-0 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-7b,11-dihydroxy-8-methyl-4-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)- (9CI) (CA INDEX NAME)



RN 201736-30-3 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-7b,11-dihydroxy-8-methyl-4-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.alpha.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)- (9CI) (CA INDEX NAME)



RN 201736-35-8 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-11-hydroxy-8-methyl-4,7b-bis[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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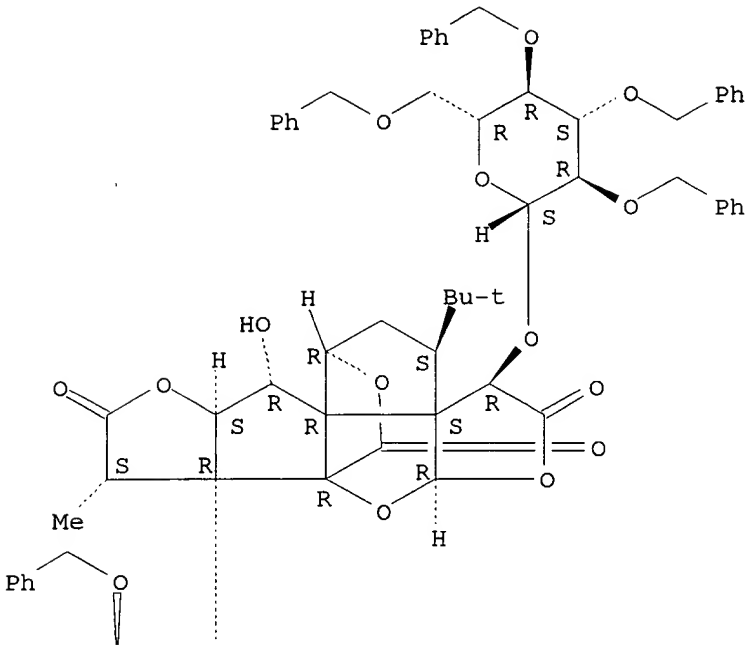

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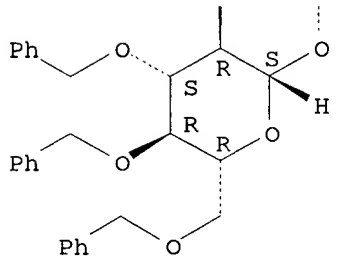
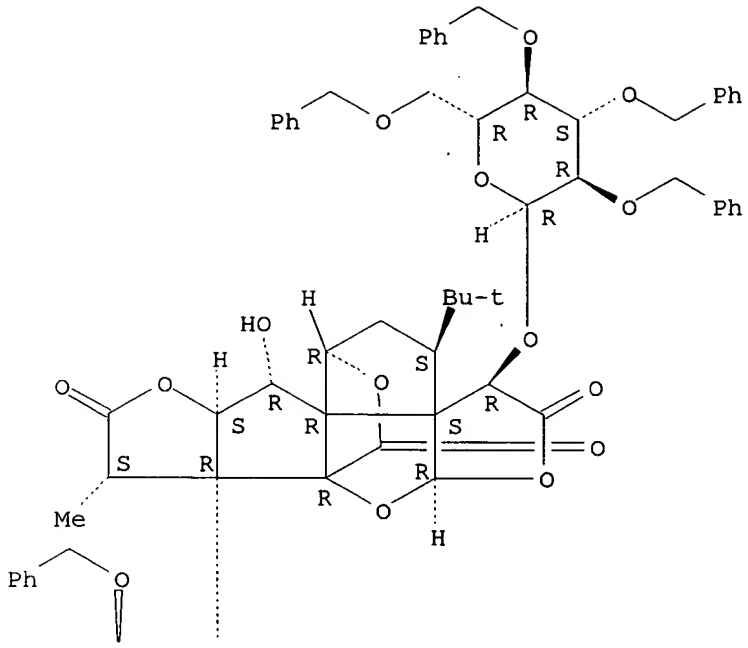


RN 201736-37-0 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-11-hydroxy-8-methyl-4-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.alpha.-D-glucopyranosyl]oxy]-7b-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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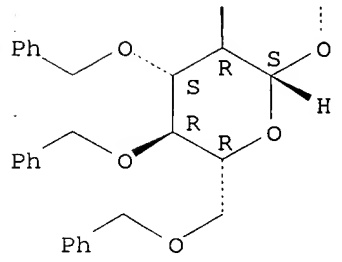

RN 201736-41-6 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4-hydroxy-8-methyl-7b,11-bis[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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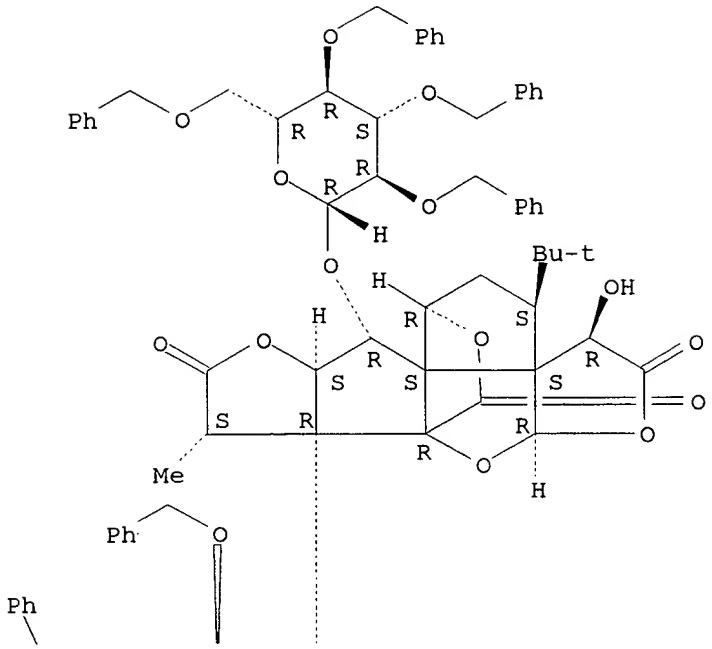

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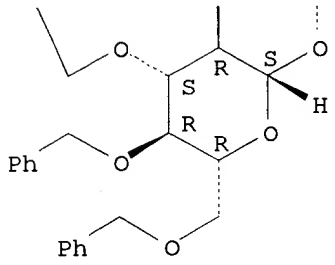

RN 201736-43-8 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4-hydroxy-8-methyl-11-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.alpha.-D-glucopyranosyl]oxy]-7b-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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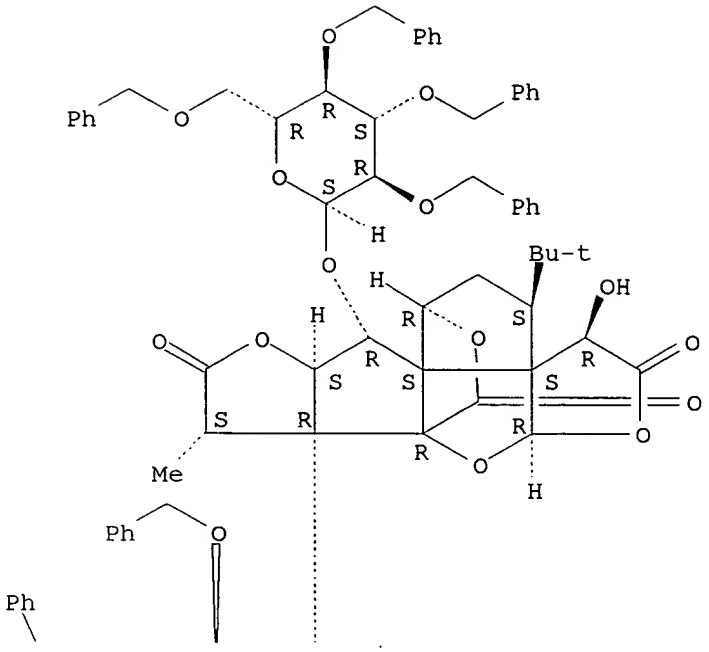

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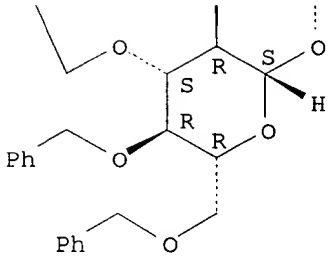
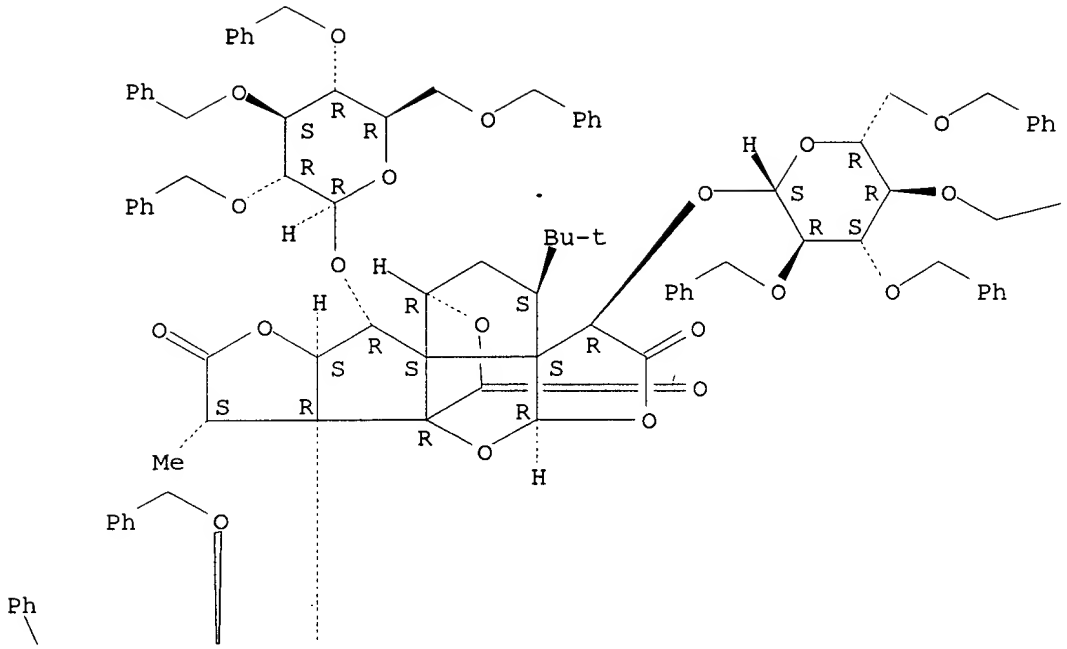


RN 201736-51-8 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-8-methyl-4,7b,11-tris[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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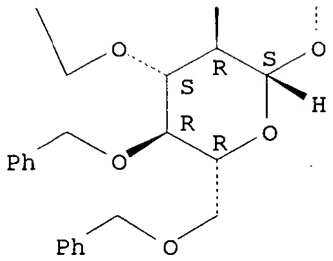
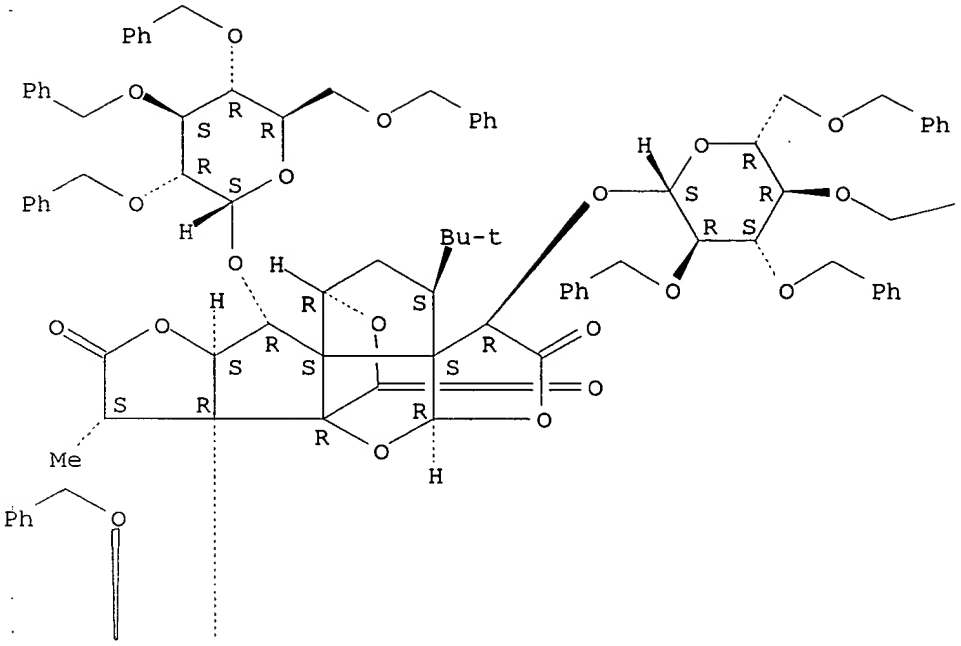


RN 201736-52-9 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-8-methyl-11-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.alpha.-D-glucopyranosyl]oxy]-4,7b-bis[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)

Searched by Barb O'Bryen & Toby Port

Absolute stereochemistry.

PAGE 1-A



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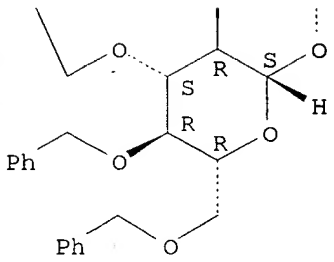

RN 201736-54-1 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-8-methyl-4-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.alpha.-D-glucopyranosyl]oxy]-7b,11-bis[[2,3,4,6-tetrakis-O-

(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-,
(1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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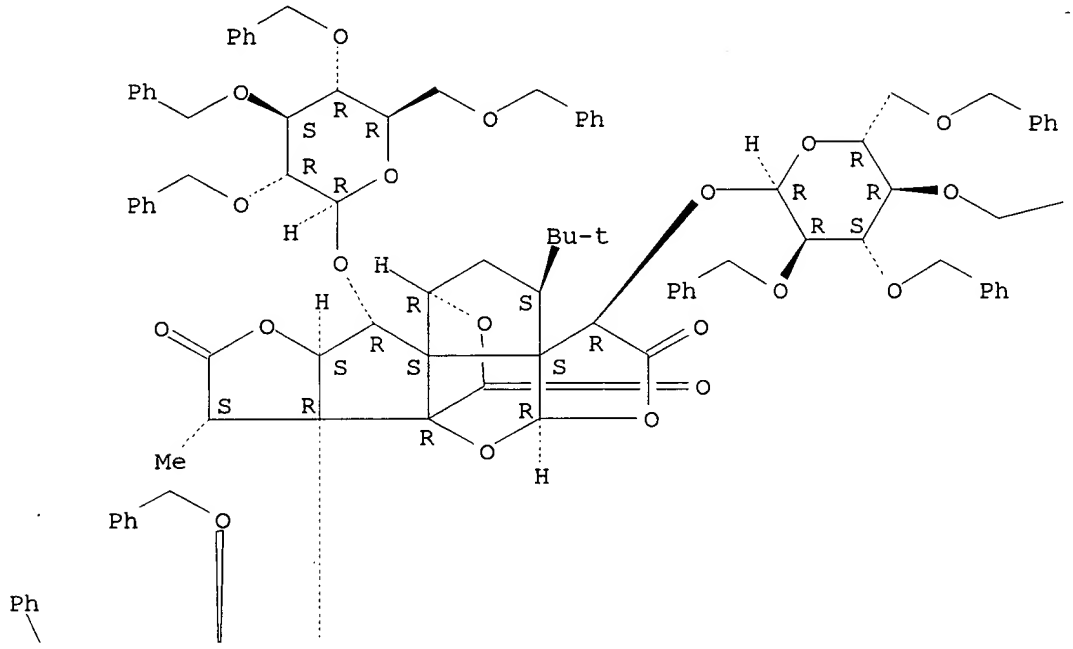

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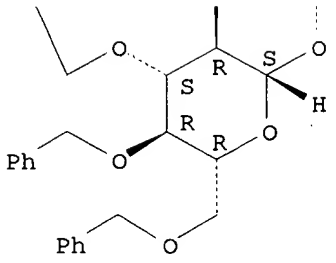
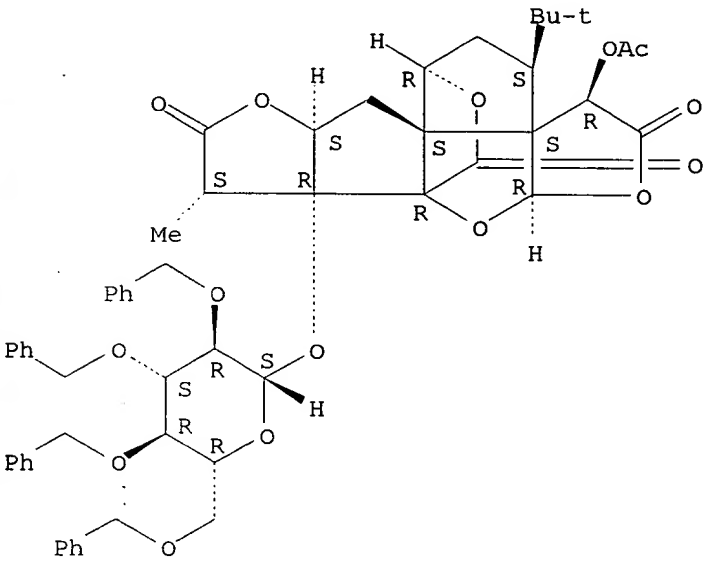


RN 201736-59-6 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione,

4-(acetyloxy)-3-(1,1-dimethylethyl)hexahydro-8-methyl-7b-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)

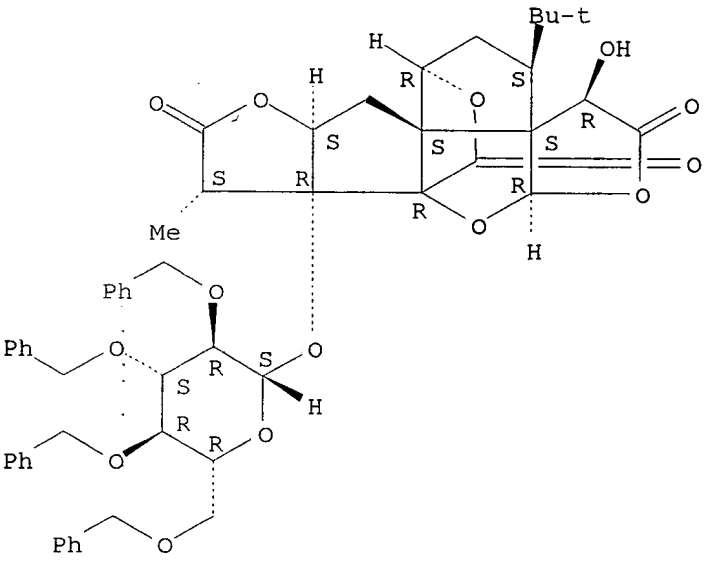
Absolute stereochemistry.



RN 201736-61-0 CAPLUS

CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4-hydroxy-8-methyl-7b-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



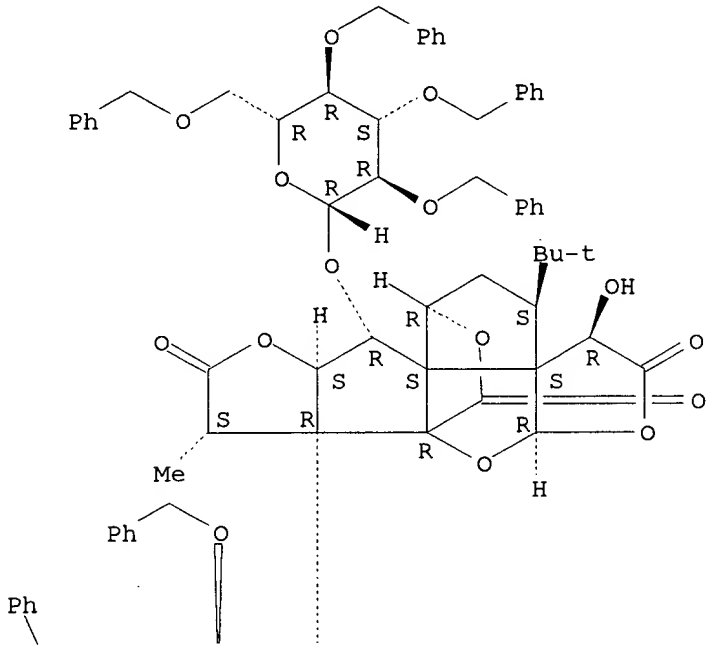
RN 232612-16-7 CAPLUS

CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione,

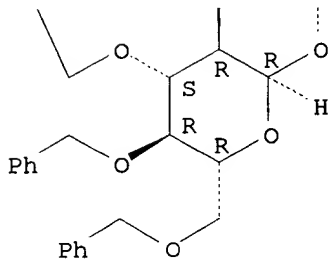
3-(1,1-dimethylethyl)hexahydro-4-hydroxy-8-methyl-7b-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.alpha.-D-glucopyranosyl]oxy]-11-[[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11R,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



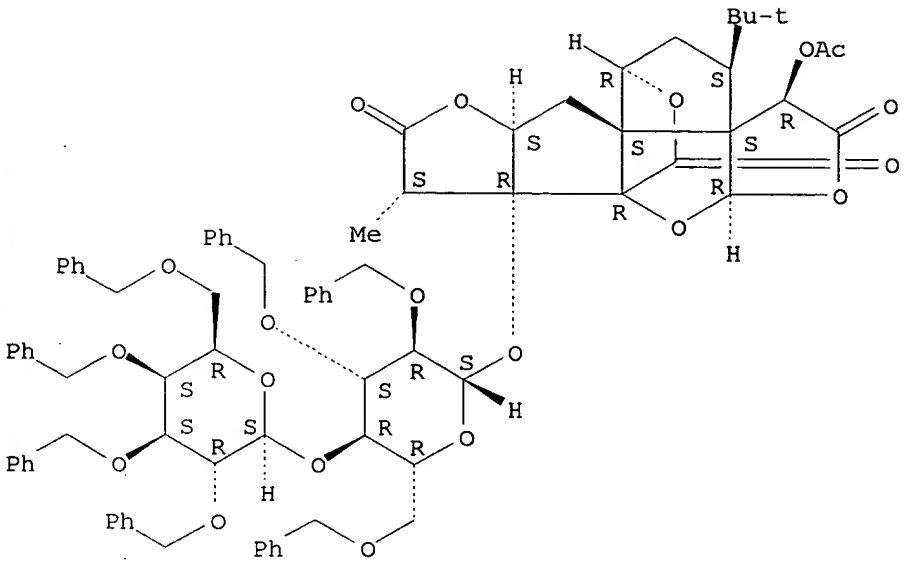
PAGE 2-A



RN 232612-20-3 CAPLUS

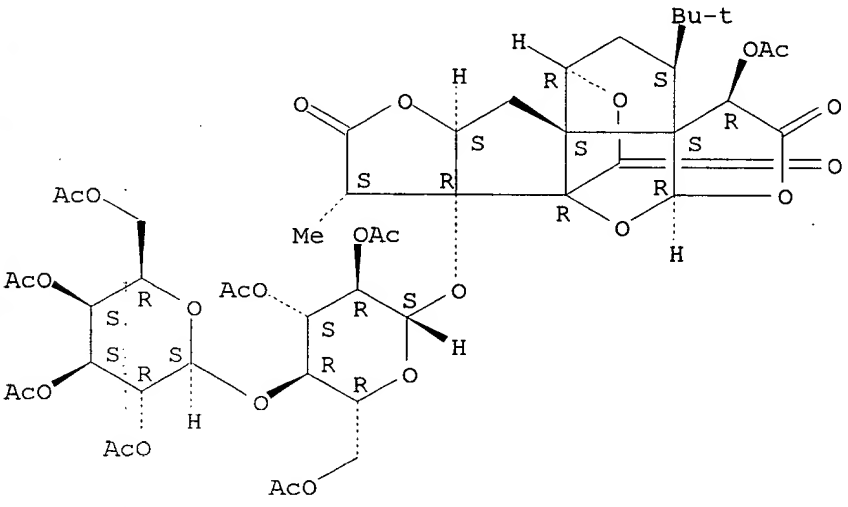
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 4-(acetyloxy)-3-(1,1-dimethylethyl)hexahydro-8-methyl-7b-[[2,3,6-tris-O-(phenylmethyl)-4-O-[2,3,4,6-tetrakis-O-(phenylmethyl)-.beta.-D-galactopyranosyl]-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 232612-21-4 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 4-(acetyloxy)-3-(1,1-dimethylethyl)hexahydro-8-methyl-7b-[[2,3,6-tri-O-acetyl-4-O-(2,3,4,6-tetra-O-acetyl-.beta.-D-galactopyranosyl)-.beta.-D-glucopyranosyl]oxy]-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)

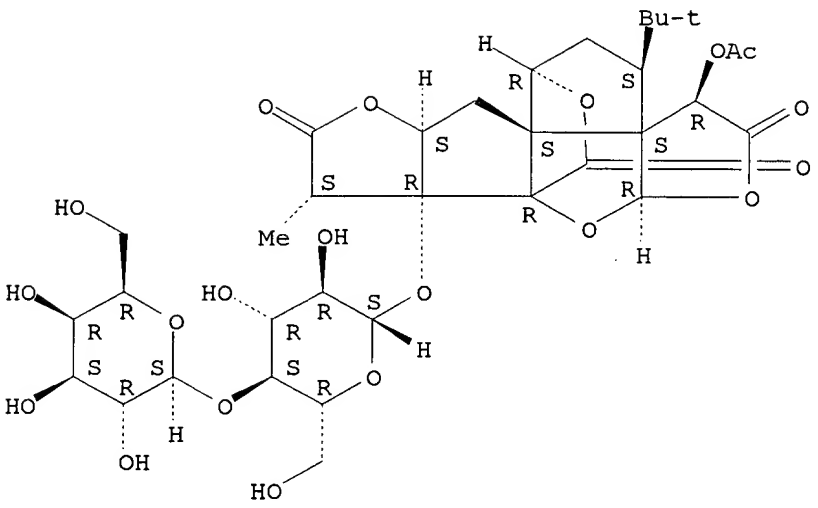
Absolute stereochemistry.



RN 232612-22-5 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 4-(acetyloxy)-3-(1,1-dimethylethyl)-7b-[(4-O-.beta.-D-galactopyranosyl-.beta.-D-glucopyranosyl)oxy]hexahydro-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Searched by Barb O'Bryen & Toby Port

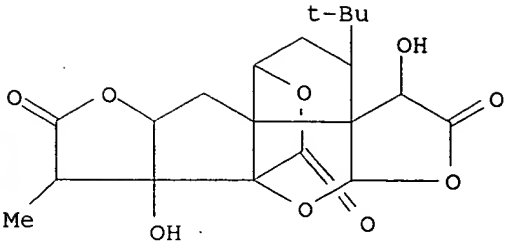


L34 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1996:436102 CAPLUS
DOCUMENT NUMBER: 125:95719
TITLE: Sample preparation of standardized extracts of Ginkgo biloba by supercritical fluid extraction
AUTHOR(S): van Beek, Teris A.; Taylor, Larry T.
CORPORATE SOURCE: Dep. Org. Chem., Agric. Univ., Wageningen, 6703 HB, Neth.
SOURCE: Phytochem. Anal. (1996), 7(4), 185-191
CODEN: PHANEL; ISSN: 0958-0344
DOCUMENT TYPE: Journal
LANGUAGE: English

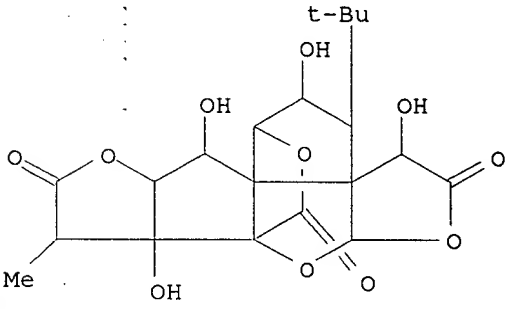
AB A method of sample prepn. of standardized exts. of Ginkgo biloba using supercrit. fluid extn. (SFE) is described. Ginkgolides and bilobalide could selectively extd. with carbon dioxide contg. 10% methanol at 335 atm and 45.degree.C from a methanolic soln. of the ext. An in-line filter of silica gel was found to be essential for obtaining clean samples. Trapping was carried out with a solid silica gel trap at 80.degree.C. After eluting the trap with Me acetate, the sample could be analyzed by gas liq. chromatog. or high performance liq. chromatog. Recoveries of the five terpenes relative to a std. solid phase extn. (SPE) procedure varied for two different exts. from 98.6 to 102.3%. Relative std. deviations were better for SFE than for SPE. A further advantage for the SFE over the SPE method is that it is much less laborious. A disadvantage is that it requires an automated supercrit. extractor. With a small adaptation, the SFE method could also be used for finished ginkgo drugs in an aq. **alc**. soln.

IT **15291-75-5**, Ginkgolide a **15291-76-6**, Ginkgolide C
15291-77-7, Ginkgolide b **107438-79-9**, Ginkgolide J
RL: ANT (Analyte); BPR (Biological process); ANST (Analytical study); BIOL (Biological study); PROC (Process)
(use of supercrit. fluid extn. for the simultaneous extn. and purifn. of standardized ginkgo exts.)

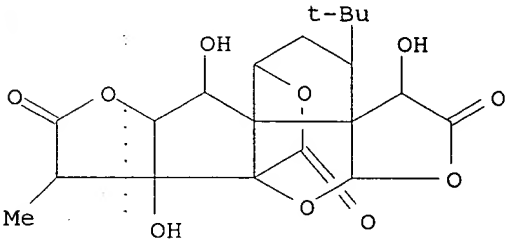
RN 15291-75-5 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



RN 15291-76-6 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b,11-tetrahydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)

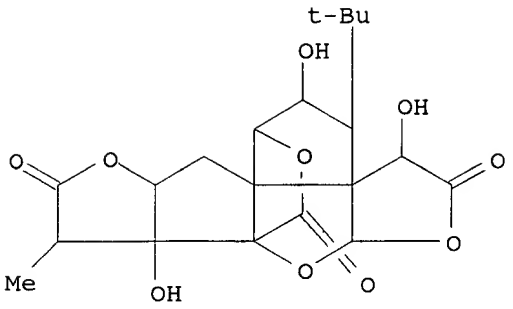


RN 15291-77-7 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)



RN 107438-79-9 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b-trihydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)

Searched by Barb O'Bryen & Toby Port



L34 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1994:45965 CAPLUS
DOCUMENT NUMBER: 120:45965
TITLE: Methods of treating aphthous ulcers and other mucocutaneous disorders
INVENTOR(S): Vora, Kakubhai R.; Khandwala, Atul; Smith, Charles G.
PATENT ASSIGNEE(S): Chemex/Block Drug, JV, USA
SOURCE: Can. Pat. Appl., 26 pp.
CODEN: CPXXEB
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2065496	AA	19921010	CA 1992-2065496	19920409
JP 05097706	A2	19930420	JP 1992-87185	19920408
EP 518798	A2	19921216	EP 1992-470014	19920409
EP 518798	A3	19941207		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
EP 836852	A1	19980422	EP 1997-202524	19920409
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT				

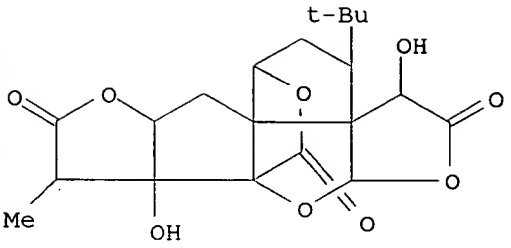
PRIORITY APPLN. INFO.: US 1991-682347 19910409
EP 1992-470014 19920409

OTHER SOURCE(S): MARPAT 120:45965

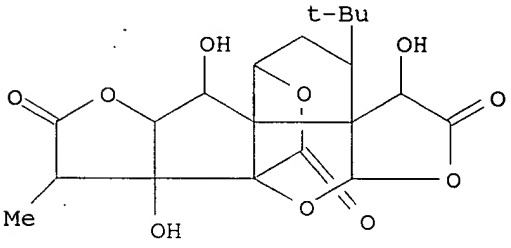
AB For treatment of aphthous ulcers and mucocutaneous disorders, a compn. contg. .gtoreq.1 drug selected from mediator release inhibitors; 5-lipoxygenase inhibitors; leukotriene antagonists; and platelet-activating factor antagonists is claimed. Patients with aphthous ulcers treated twice a day for three days with 5% treating agent showed clin. significant improvement in all parameters (e.g. ulcer size and redn. in erythema) measured over the vehicle paste.

IT **15291-75-5**, Ginkgolide A **15291-77-7**
RL: BIOL (Biological study)
(compn. contg., for treating aphthous ulcers and mucocutaneous disorders)

RN 15291-75-5 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)

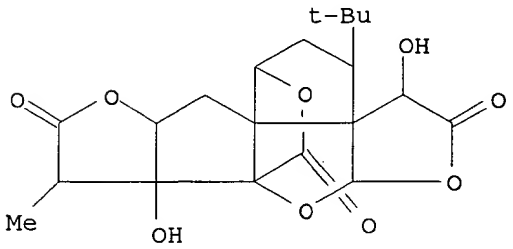


RN 15291-77-7 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)

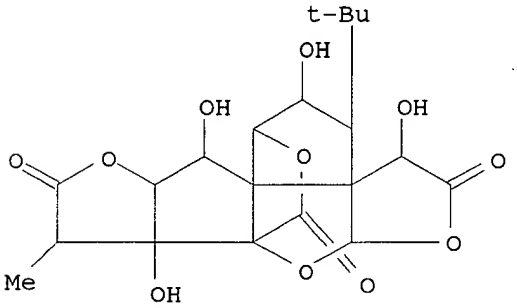


L34 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1991:415699 CAPLUS
DOCUMENT NUMBER: 115:15699
TITLE: Determination of ginkgolides and bilobalide in Ginkgo biloba leaves and phytopharmaceuticals
AUTHOR(S): Van Beek, T. A.; Scheeren, H. A.; Rantio, T.; Melger, W. C.; Lelyveld, G. P.
CORPORATE SOURCE: Lab. Org., Agric. Univ., Wageningen, 6703 HB, Neth.
SOURCE: J. Chromatogr. (1991), 543(2), 375-87
CODEN: JOCRAM; ISSN: 0021-9673
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A method was developed for the detn. of the pharmacol. active terpenoids ginkgolide A, B and C and bilobalide in G. biloba leaves and phytopharmaceutical prepns. contg. ginkgo exts. The leaves (400-800 mg) are selectively extd. with MeOH-H2O (10:90) and the resulting ext. is purified by a polyamide and a C18 solid-phase extn. column. After concn., the terpenoids are detd. by HPLC on a C18 column with MeOH-H2O (33:67) as eluent and refractive index detection. Benzyl **alc**. is used as an internal std. The recovery of the method is 95%. The reproducibility is dependent on the concn. and varies from 2 to 15%. The min. concn. that can be detd. in leaves is 10 .mu.g of terpenoid/g of dry leaves. With a small modification the method can be used equally well for phytopharmaceuticals. Several ginkgo medicines were investigated and the total concn. of terpenoids was found to vary by a factor 18. The concn. in leaves varied by a factor 40.
IT **15291-75-5**, Ginkgolide A **15291-76-6**, Ginkgolide C **15291-77-7**, Ginkgolide B **107438-79-9**, Ginkgolide J
RL: ANT (Analyte); ANST (Analytical study)
(detn. of, in Ginkgo biloba leaves, by HPLC)
RN 15291-75-5 CAPLUS

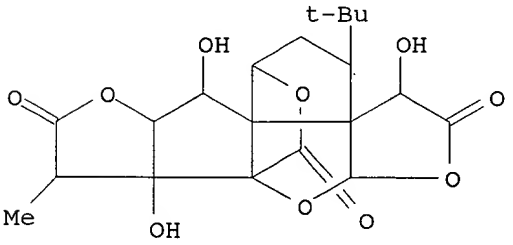
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



RN 15291-76-6 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b,11-tetrahydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)

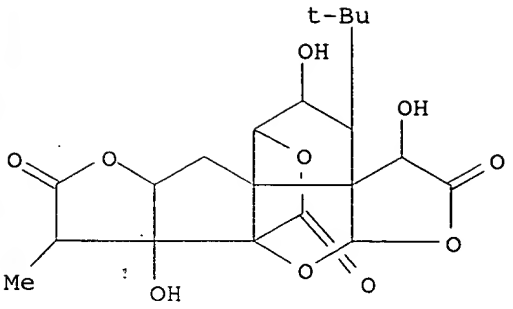


RN 15291-77-7 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)- (9CI) (CA INDEX NAME)

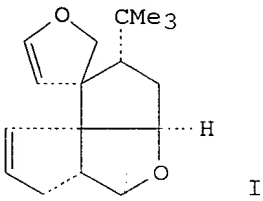


RN 107438-79-9 CAPLUS
CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-2,4,7b-trihydroxy-8-methyl-, (1S,2R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)

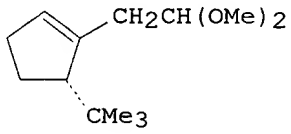
Searched by Barb O'Bryen & Toby Port



L34 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1989:134945 CAPLUS
DOCUMENT NUMBER: 110:134945
TITLE: Enantioselective route to a key intermediate in the total synthesis of ginkgolide B
AUTHOR(S): Corey, E. J.; Gavai, Ashvinikumar V.
CORPORATE SOURCE: Dep. Chem., Harvard Univ., Cambridge, MA, 02138, USA
SOURCE: Tetrahedron Lett. (1988), 29(26), 3201-4
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:134945
GI



I



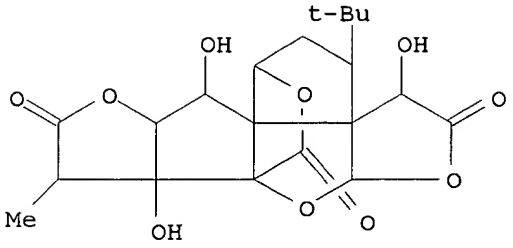
II

AB An enantioselective route to the ginkgolide B, intermediate I has been developed which is based on enantioselective redn. of 2-(2,2-dimethoxyethyl)-2-cyclopenten-1-one to the (R)-**alc**. and subsequent distereoselective anti-SN2' displacement to form intermediate II which was converted in several steps to I.

IT **112652-59-2**, (.+-.)-Ginkgolide B
RL: RCT (Reactant)
(intermediate for, enantioselective prepn. of)

RN 112652-59-2 CAPLUS

CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b,11-trihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11S,11aR)-rel- (9CI) (CA INDEX NAME)



L34 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2000 ACS
ACCESSION NUMBER: 1967:421756 CAPLUS
DOCUMENT NUMBER: 67:21756
TITLE: Ginkgolides. I. Isolation and characterization of the various groups
AUTHOR(S): Maruyama, Masao; Terahara, Akira; Itagaki, Yasuhiro; Nakanishi, Koji
CORPORATE SOURCE: Tohoku Univ., Sendai, Japan
SOURCE: Tetrahedron Lett. (1967), (4), 299-302
CODEN: TELEAY
DOCUMENT TYPE: Journal
LANGUAGE: English

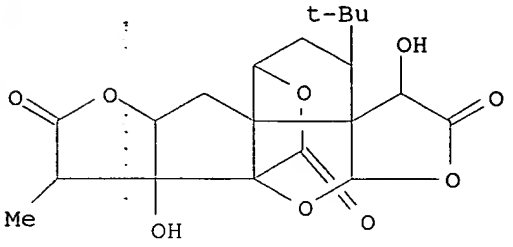
AB An extended series of investigations showed that the 4 ginkgolides isolated from Ginkgo biloba are unique cage mols. which are C20 compds. incorporating a tert-Bu group and 6 5-membered rings in a spiro[4.4]nonane system. A MeOH ext. of 100 kg. undried chopped root bark concd., the sirup washed with C6H6, the aq. layer sepd., and the solid content crystd. from EtOH gave 50 g. gingkolides. The crystals taken up in Me2CO and adsorbed on Celite and the Celite layered on silica gel and eluted with CHCl3 contg. a trace of **alc**. gave a mixt. of ginkgolide A (I), ginkgolide B (II), a small amt. of ginkgolide M (III), and finally ginkgolide C (IV). The sepn. of I and II was extremely tedious and complicated by the polymorphic tendency of I. After 10-15 step fractional recrystn. 10, 10, 20, and 0.2 g. I, II, III, and IV were obtained. All are bitter compds. decompg. above 280.degree., and extremely stable to mineral acids. The relatively volatile I dimethyl ether, C22H28O9, showed m/e 436, 168 and detns. by high resolution mass spectrometry showed I, II, III, IV to be C20H24 compds., C20H24O9, [.alpha.]D -39.degree. (c 1.0, dioxane); C20H24O10, [.alpha.]D -63.degree.; C20H24O11, [.alpha.]D -19.degree.; and C20H24O10, [.alpha.]D -39.degree., resp. The presence of a 9-proton singlet at 1.2-1.3 ppm. in the N.M.R. spectra of all derivs., and of a strong mass spectral peak at 57.074 suggest the presence of a tert-Bu group established by Kuhn-Roth oxidn. of IV and isolation of tert-BuCO2H. Conventional N.M.R. techniques showed the presence of 1,2,3, and 3-secondary and 1,1,1,and 0-tertiary OH groups in I, II, III, and IV, resp. The ginkgolides showed strong but ill-defined ir absorption around 1780 cm.-1 due only to lactone CO groups. The presence of 3 lactone groupings was suggested by lactone titrns. Absence of a ketone grouping was suggested also by plain neg. rotary dispersion curves exhibiting no Cotton effect in the 250-700 m.mu. range. The remaining O function in "I triether" was assigned to an ether linkage. Lack of olefinic peaks in N.M.R. spectra, absence of ir absorption near 1650 cm.-1, and low end-absorption in the uv spectra showed lack of C:C double bonds and showed that the ginkgolides are hexacyclic compds.

IT **15291-75-5P 15291-76-6P 15291-77-7P 15291-78-8P**
RL: PREP (Preparation)
(from Ginkgo biloba)

RN 15291-75-5 CAPLUS

Searched by Barb O'Bryen & Toby Port

CN 9H-1,7a-(Epoxymethano)-1H,6aH-cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-5,9,12(4H)-trione, 3-(1,1-dimethylethyl)hexahydro-4,7b-dihydroxy-8-methyl-, (1R,3S,3aS,4R,6aR,7aR,7bR,8S,10aS,11aS)- (9CI) (CA INDEX NAME)



RN 15291-76-6 CAPLUS
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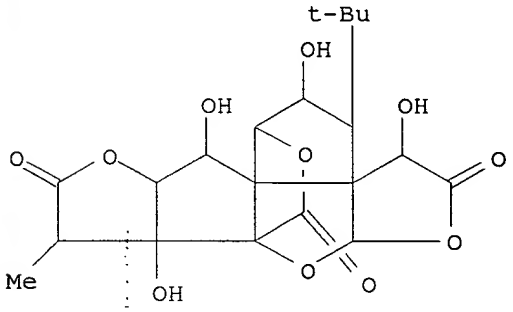

RN 15291-77-7 CAPLUS
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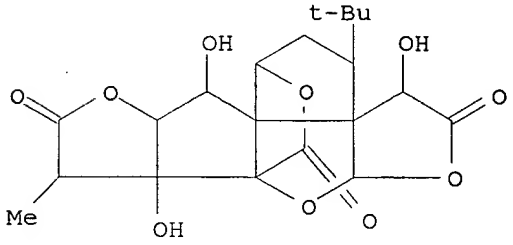

RN 15291-78-8 CAPLUS
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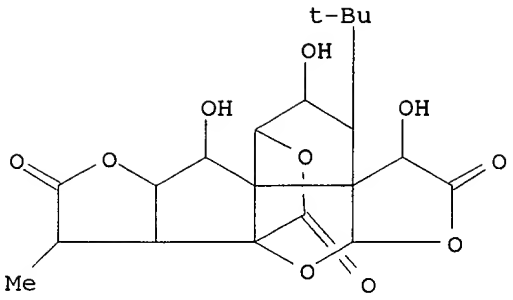

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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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L17 348 SEA FILE=REGISTRY ABB=ON PLU=ON 5526.1.1/RID
L37 0 SEA FILE=CAOLD ABB=ON PLU=ON L17

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FILE COVERS 1650 TO 16 OCT 2000 (20001016/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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Searched by Barb O'Bryen & Toby Port

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L39        2185 SEA FILE=NAPRALERT ABB=ON  PLU=ON  ?ALCOHOL?
L40        1200 SEA FILE=NAPRALERT ABB=ON  PLU=ON  ?TOBACCO? OR ?CIGAR? OR
                ?NICOTIN?
L41          55 SEA FILE=NAPRALERT ABB=ON  PLU=ON  ?ADDICT?
L42          14 SEA FILE=NAPRALERT ABB=ON  PLU=ON  DRUG (3A) DEPEND?
L43         229 SEA FILE=NAPRALERT ABB=ON  PLU=ON  ?HEROIN? OR ?COCAINE?
L44         607 SEA FILE=NAPRALERT ABB=ON  PLU=ON  ?AMPHETAMIN? OR ?BARBITURAT?
                 OR ?METHEDRIN? OR ?BENZEDRIN? OR ?DEXEDRIN?
L45           1 SEA FILE=NAPRALERT ABB=ON  PLU=ON  L38 AND ((L39 OR L40 OR L41
                OR L42 OR L43 OR L44))

=> d kwic
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answer below is a false hit

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ORGN . . .
          ACTIVE
          Comment(s): DATA INCOMPLETE - DERIVED FROM AN ABSTRACT.
          COMPOUND. Chemical name (CN): GINKGOLIDE B
               CAS Registry Number (RN): 15291-77-7
               Class identifier (CI): DITERPENE
ORGN Class: GYMNOSPERM  Family: GINKGOACEAE  Genus: GINKGO  Species: BILOBA
      Organism part: DRIED LEAF
      TYPE OF STUDY (STY): IN VITRO  Classification (CC): APOPTOSIS INHIBITION
          Extract type: HYDRO-ALCOHOLIC EXT
          Dosage Information: CELL CULTURE; CONC USED: 100.0 MG per LITER
          Pathological system: NEURON
          Qualitative results: ACTIVE
          Comment(s): DATA INCOMPLETE.  .  .


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